

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF APS AND LED COUNTDOWN PEDESTRIAN SIGNALS ON THE NORTH LEG OF THE INTERSECTION OF US 13 BUSINESS (N. SALISBURY BOULEVARD) AND NAYLOR STREET IN WICOMICO COUNTY. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL TRAFFIC-ACTUATED MODE. THE EXISTING PRE-EMPTION PHASES WILL REMAIN. A SIDE STREET ALTERNATE PEDESTRIAN PHASE IS PROPOSED.

- APS WILL FUNCTION AS FOLLOWS:
FOR NORTH SALISBURY BOULEVARD
- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS NORTH SALISBURY AT NAYLOR".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL A 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

THE CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

The Power Company Representative is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9571	58 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS N. SALISBURY BLVD" 1 EA - ASSOCIATED SHIELD ASSEMBLY (24"x51"), "SOUTH, US 13 BUSINESS, RIGHT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY (36"x75"), "NORTH, US 13 BUSINESS, LEFT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY (24"x51"), "NORTH, US 13 BUSINESS, RIGHT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY (36"x75"), "SOUTH, US 13 BUSINESS, LEFT ARROW"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
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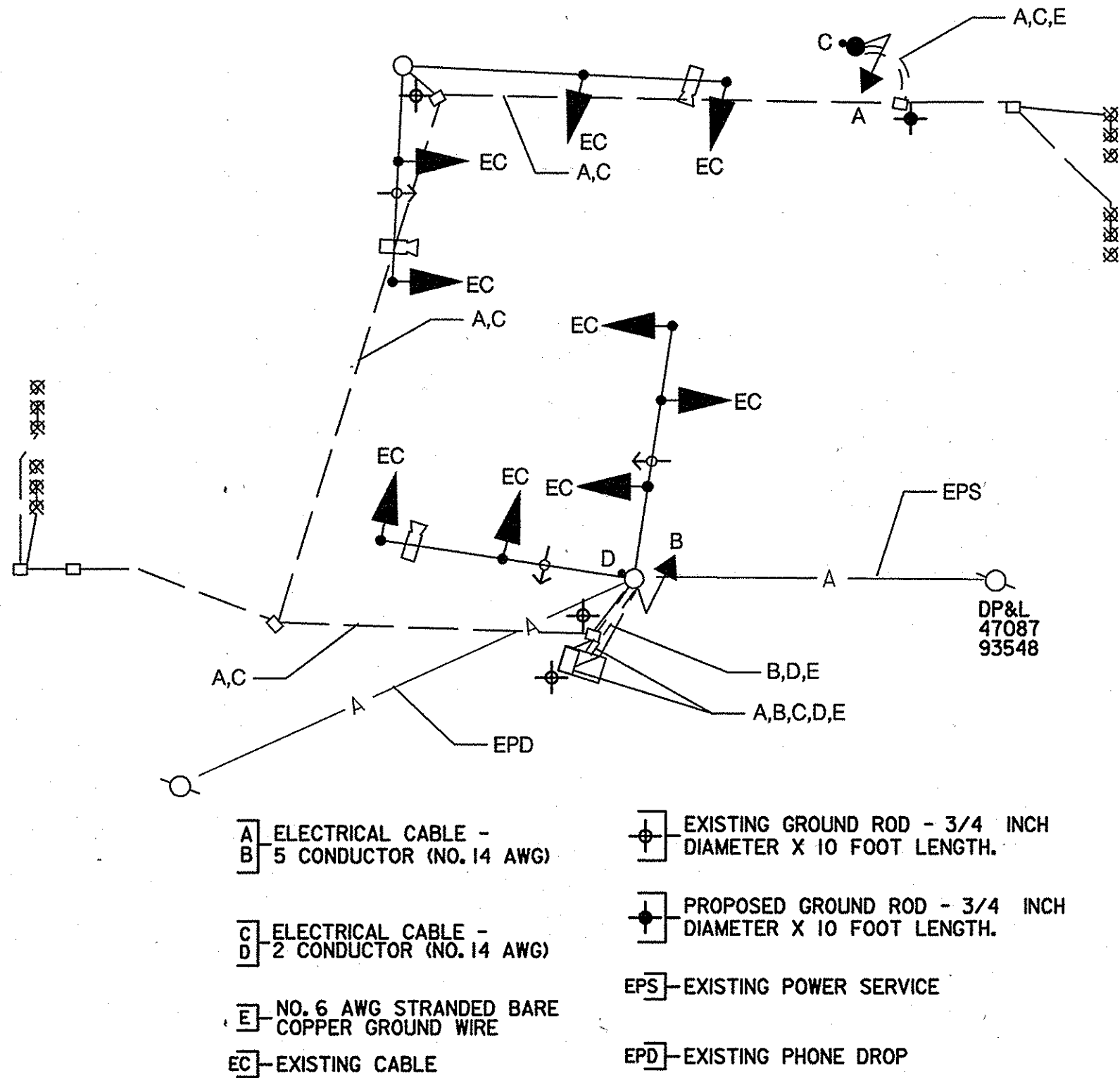
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5003	165 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5004	50 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5006	215 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
6001	75 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN AND 8 INCH DEPTH
6002	200 SF	5 INCH CONCRETE SIDEWALK
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8007	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8008	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8009	2 EA	CONDUIT BEND IN EXISTING BASE
8011	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8020	40 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8021	20 LF	DETECTABLE WARNING SURFACES
8027	40 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8032	58 SF	INSTALL OVERHEAD SIGN
8037	325 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8039	325 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8001	28 EA	12 INCH LED SIGNAL HEAD SECTION
8004	3 EA	8 INCH LED SIGNAL HEAD SECTION

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	
PHASE 2 AND 5	R	R	G	G	G	R	R	R	R	DW	DW	
5 CHANGE	R	R	Y	Y	Y	G	R	R	R	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 4 AND 8	R	R	R	R	R	G	G	G	G	DW	DW	
PHASE 4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE 4 AND 8 ALT.	R	R	R	R	R	G	G	G	G	W	W	
PHASE 4 AND 8 ALT. PED. CLEARANCE	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	
PHASE 4 AND 8 ALT. CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PRE-EMPTION 02	R	R	G	G	G	R	R	R	R	DW	DW	
PRE-EMPTION 02 CHANGE	R	R	Y	Y	Y	Y	R	R	R	DW	DW	
PRE-EMPTION 06	G	G	R	R	R	R	R	R	R	DW	DW	
PRE-EMPTION 06 CHANGE	Y	Y	R	R	R	R	R	R	R	DW	DW	
PRE-EMPTION 08	R	R	R	R	R	R	R	G	G	DW	DW	
PRE-EMPTION 08 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

TEDD RED LINE #1 - UPGRADE TO LED SIGNALS 3/2008



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 BUSINESS (N. SALISBURY BOULEVARD)
AT NAYLOR STREET

GENERAL INFORMATION

SCALE	NONE	ADVERTISED DATE	12/008	CONTRACT NO.	XX3405185
DESIGNED BY	VGN	COUNTY	WICOMICO		
DRAWN BY	AMT	LOGMILE	22B01306.25		
CHECKED BY	BAB	TIMS NO.	1457		
F.A.P. NO.	SEE TITLE SHEET	TOD NO.			

TS NO. 1945E-GI	DRAWING	SG - 02	OF 02	SHEET NO.	2	OF 2
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PLOTTED: Thursday, March 27, 2008 AT 11:42 AM
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engineers / architects / planners / construction managers
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